

Title (en)
ROTOR WIND PLANT

Title (de)
ROTORWINDANLAGE

Title (fr)
CENTRALE EOLIENNE A ROTOR

Publication
EP 1577547 A1 20050921 (EN)

Application
EP 03811559 A 20030801

Priority
• RU 0300344 W 20030801
• RU 2002130846 A 20021119

Abstract (en)
[origin: RU2215898C1] FIELD: power engineering. SUBSTANCE: invention relates to windmill electric generating plants with vertical axis of rotation of rotor. According to invention in proposed rotary windmill electric generating plant including guide assembly with curve vanes and rotor with curved blades whose shaft is mechanically coupled with shaft of electric generator, blades of rotor are made in form of aerodynamic wings installed with clearance relative to rotor shaft, and vanes of guide assembly are made in form of aerodynamic wings, vanes and blades being pointed with their concave surfaces in opposite circumferential directions, and plant consists of at least one module, each consisting of rotor and guide assembly with its vanes being installed at angle of wind flow inlet of 40-60o and at angle of 30-80o. EFFECT: improved use of wind flow energy, control of power supply to user, simplified design of plant and its operation. 3 dwg

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